

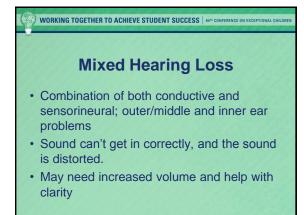


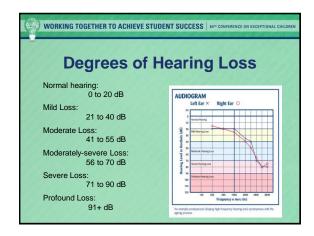


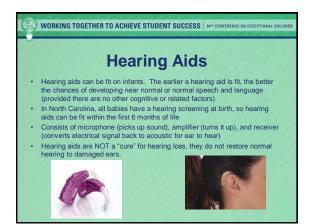
Causes & Types of Hearing Loss















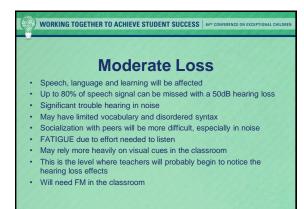
## How does a Cochlear Implant work?

- Microphone picks up the sound on the processor that's worn on the ear
- Speech processor selects and arranges sound that the microphone picks up
- Transmitter and receiver/stimulator takes sounds from speech processor and coverts to electrical impulses
- These electrical impulses are sent to electrodes inside the cochlea (inner ear), to be sorted and sent to the hearing nerve and from there to the brain to be processed.
- Simulation of how we hear with an implant: <u>Simulation</u>

(%)	WORKING TOGETHER TO ACHIEVE STUDENT SUCCESS   64" CONFERENCE ON EXCEPTIONAL CHILDREN
	Possible Effects of Hearing Loss in the Classroom
	Mild Loss
	Hard to hear faint or distant speech
•	Child can miss from 10-40% of speech signal depending upon degree of mild loss and up to 50% of classroom discussions
•	Percent of speech signal missed increases with background noise
•	Younger kids may watch & copy actions of classmates rather than try to listen to teacher
	Maybo be upaware of subtle conversational cues

Self-esteem may begin to suffer and may increase in fatigue

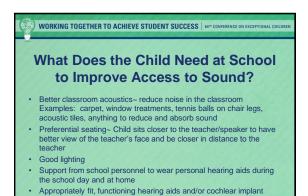
· May sound like ears are "plugged"





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	Moderately Severe to Severe Loss	
	Without hearing aids speech must be very loud to be understood	
•	Without early intervention (before age 1), speech, intelligibility, syntax will be delayed	
•	With hearing aids ALONE, ability to understand is reduced in noise and distance	
	Child will be aware of people talking around him/her but will miss parts of what said, making communication one-on-one or in groups very difficult	
•	Greater difficulty socializing, especially in noisy situations	
	Tendency for poorer self-concept and/or social immaturity	
•	FM/ amplification crucial	
•	Remember: Even on their best "hearing" day, they will still have a mild to moderate hearing loss with amplification	





FM system!

